Challenge dose 10⁸ CFU

OMPs -Fe

Whole cells
No vaccine

5

4

Survivors 3

D3(A)

D3(B)

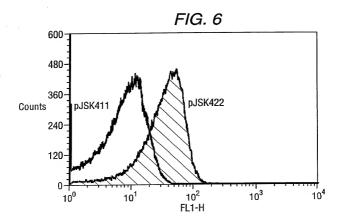
D2(C)

D2(B)

D2(A)

0 -

D1



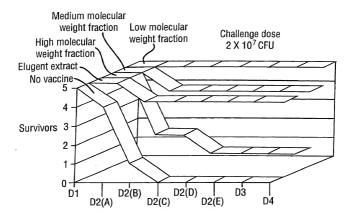


FIG. 2A

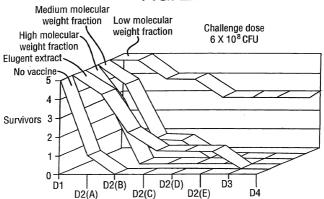


FIG. 2B

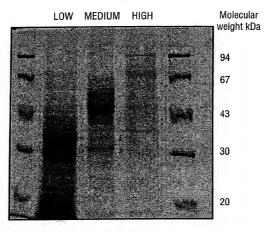
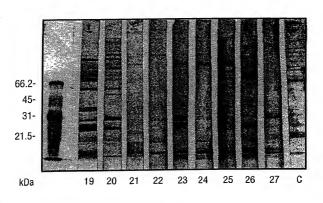
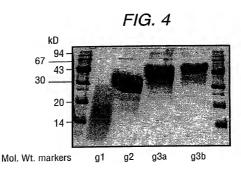


FIG. 3





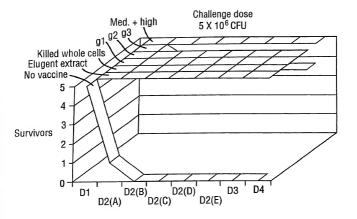


FIG. 5

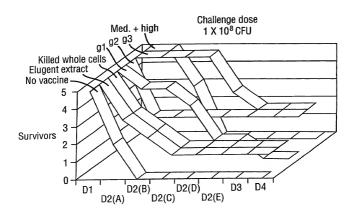


Fig. 7

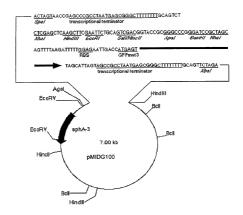
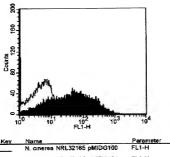


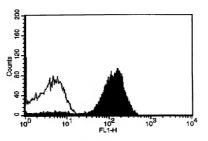
Fig. 8





Gate G1 N. cineres NRL32165 pMIDG101 FL1-H G1

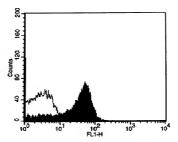
(B)



Key	Name	Parameter	Gate
	N. fiava NRL30008 pMIDG100	FL1-H	G1
	N. flava NAL30008 pMIDG101	FL1+H	G1

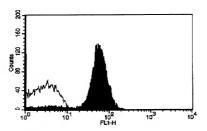
Fig. 8 (continued)

(C)



Key	Name	Parameter	Gate
	N. sicca M98-252234 pMIDG100	FL1-H	G1
	N. sicca M98-252234 pMIDG101	FL1-H	G1

(D)



Key	Name	Parameter	Gate
	N. subflava NRL30017 pMIDG180	FL1-H	G1
	N. subilava NRL30017 pMIDG101	FL1-H	G1

Fig. 8 (continued)

(E)

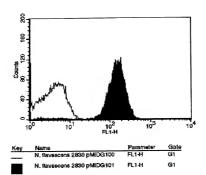


Fig. 9

(A)



(B)



Fig. 10

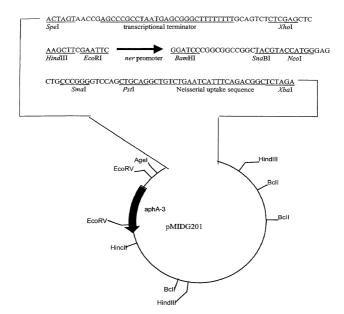


Fig. 11

NcoI - tgaccataaaggaaccaaaatatgaaaaaagcacttgccacactgattgccctcg	ctctcccggccgcactggcggaaggcgcatccttta
RBS Start codon	
cgtccaagccgatgccgcacacgcaaaagcctcaagctctttaggttctgccaaaggcttca	agecegegeateteegeaggetacegeateaacgaceteegettegeegt
cgattacacgcgctacaaaaactataaagccccatccaccgatttcaaactttacagcatcgs	gegegteegecatttaegaettegaeaeceaategeeegteaaaeegtatet
cggcgcgcgcttgagcctcaaccgcgcctccgtcgacttgggcggcagcgacagcttcag	gccaaacetecateggeeteggegtattgaegggegtaagetatgeegtta
cccgaatgtcgatttggatgccggctaccgctacaactacatcggcaaagtcaacactgtc	aaaaacgtccgttccggcgaactgtccgtcggcgtgcgcgtcaaattctga
tatgegeett attetgeaaacegeegageetteggeggttttgttttet - PstI	
Stop codon Tra	anscription terminator

Fig. 12 N. lactamica OMVs protect mice against challenge by diverse meningococcal strains

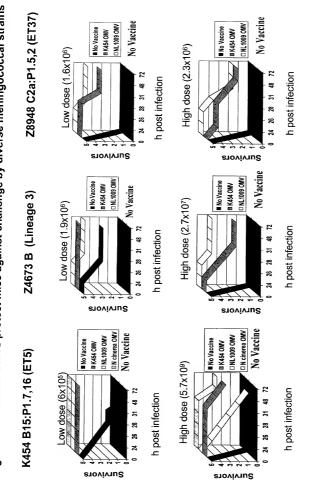


Fig 12 continued

NZ 394/98 B4:P1.6 (Lineage 3)

Z4662 B2b:P1.2 (A4)

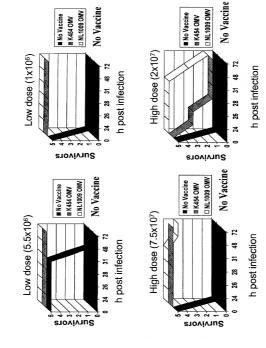


Fig. 13 Neisseria lactamica OMVs and low MW protein pool protect mice against meningococcal challenge

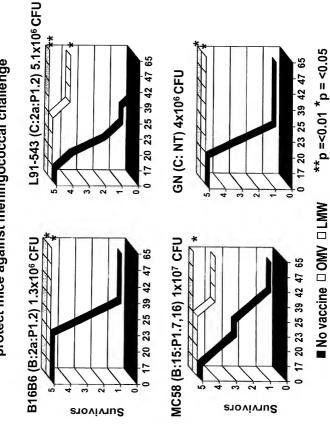
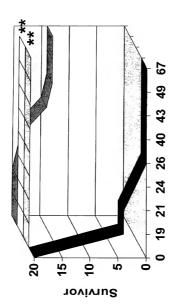
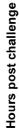


Fig. 14. N. lactamica OMVs with Freund's or alum adjuvant protect mice against serogroup B meningococcal challenge (isolate K454)

Challenge dose 4.35 x 106 CFU





■ No vaccine □ OMV ALOH □ OMV Freund's ■ LMW ALOH

